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Notice of Allowability R. Mach	Application No.	Applicant(s)
Notice of Allewshilling of Neck	10/822,132	NAGAOKA ET AL.
Notice of Allowability 17. Number	Examiner	Art Unit
/ 4/13/05	Ricky L. Mack	2873
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to		
2. X The allowed claim(s) is/are <u>1-25</u> .		
3. $\boxtimes$ The drawings filed on <u>12 April 2004</u> are accepted by the E	xaminer.	
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the: <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* Certified copies not received: <ol> <li>Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> </ol> </li> </ul>	e been received. e been received in Application No cuments have been received in this of this communication to file a reply	national stage application from the
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers         <ol> <li>1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li> <li>(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the sheet. Replacement sheet(s) should be labeled as such in the deposit of the saminer's comment regarding REQUIREMENT</li> </ol> </li> </ol>	son's Patent Drawing Review (PTO s Amendment / Comment or in the C .84(c)) should be written on the drawithe header according to 37 CFR 1.121( sit of BIOLOGICAL MATERIAL	Office action of  ngs in the front (not the back) of (d).  must be submitted. Note the
<ul> <li>Attachment(s)</li> <li>1. ⋈ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ⋈ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 0404</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. Interview Summary Paper No./Mail Da 08), 7. Examiner Amend	te <u>0405</u>
	RICKY PRIMAR	L. MACK Y EXAMINER

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## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Altmiller on 4/11/05.

The application has been amended as follows (see pages 3 and 4):

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Claim 1 (Twice Amended) A variable optical element comprising:

- a first liquid member;
- a second liquid member which is unsoluble in the first liquid member;
- a container which contains the first liquid member and the second liquid member;
- an index for positioning the variable optical element according to a predetermined reference,

wherein an interfacial shape between the first liquid and the second liquid surface varies according to a voltage which is applied to the liquid members; and

the index is disposed such that a wave front aberration in the variable optical element is minimum equal to or less than a predetermined value under condition that the variable optical element is positioned according to the predetermined reference.

short of

Claim 25 (Amended) A variable optical element comprising:

- a first liquid member;
- a second liquid member which is insoluble in the first liquid member;
- a container which contains the first liquid member and the second liquid member;
- an index for positioning the variable optical element according to a predetermined reference.

wherein an interfacial shape between the first liquid and the second liquid surface varies according to a voltage which is applied to the liquid members; and

the index is disposed such that a wave front aberration in the variable optical element is a minimum under the condition that the variable optical element is positioned according to the predetermined reference.

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## REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance: The prior art taken either singularly or in combination fails to anticipate or fairly suggest the limitations of the independent claim(s), in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper. The prior art fails to teach a combination of all the claimed features as presented in claim(s) 1-25, an interfacial shape between a first liquid member and a second liquid member surface varies according to a voltage which is applied to the liquid members; and an index is disposed such that a wave front aberration in the variable optical element is equal to or less than a predetermined value under condition that the variable optical element is positioned according to a predetermined reference position, as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following references are cited for being a related (inventive entity/assignee) reference or for disclosing an optical device having two liquid optical members having a surface(s) positioned therebetween: Oaki et al. (5071229), Takahashi et al. (5150234) and the latter filed related Takeyama et al. (20040228003A1).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ricky L. Mack whose telephone number is (571) 272-2333. The examiner can normally be reached on Monday-Friday (6:30 AM to 4:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y. Epps can be reached on (571) 272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ricky L Mack Primary Examiner Art Unit 2873

RM April 13, 2005